

Abstract

Graft polymeric membranes and methods for making graft polymeric membranes have one or more trifluorovinyl aromatic monomers that are radiation graft polymerized to a polymeric base
5 film. The membranes comprise a polymeric base film to which has been graft polymerized substituted α,α,β -trifluorostyrene and/or α,α,β -trifluorovinyl naphthylene monomers, which are activated towards graft polymerization. As ion-
10 exchange membranes, the membranes are suitable for use in electrode apparatus, including membrane electrode assemblies in, for example, fuel cells. The membranes can also be crosslinked.